

45010 Ultramarine Blue, dark

Chemical Composition

Product name: Ultramarine blue

Chemical name: Sodium aluminium sulfo silicate Color index: C.I. Pigment Blue 29 : 77007

CAS No.: 57455-37-5 (TSCA)

101357-30-6 (EINECS)

EINECS: 3-099-283

Specification

Coloring (optical brightning 1:5 with titanium dioxide in linseed oil compared to standard)

DL: max. \pm 0.30 CIEL DH: max. \pm 1,00 CIEL DC: max. \pm 1.30 CIEL DE: max. 1,50 CIEL Screen oversize (45 µm): max. 0.10 % Volatile part (105°C): max. 2.00 % Free sulfur: max. 0.05 % Water soluble parts: max. 1.00 %

Typical data

Coloring strength: 86
Density: 2.30
Bulk density (g/cm^3) : 0.80
Mean particle size (μm) : 2.50

Fastness/Resistance

Temperature stability: > 350°C

Light fastness (Xenon lamp and daylight):

Light fastness - dilution:

Alkali resistance:

Acid resistance:

excellent

excellent

excellent



Safety Data

Acute oral toxicity (LD50, rat): > 10 g/kg

Skin irritation: not irritant and not sensitizing

Eye irritation: not irritant

Limit of exposition: 6 mg/m³ (MAK value)

Ecology: not hazardous

Regulations

Ultramarine blue is a non-toxic pigment. It is generally permitted for coloring objects/things having contact with foodstuffs and for the manufacture of toys.

Storage, Stability and Handling

Transportation and storage: Do not store near acid substances.

Not compatible substances: Acids

Decomposition products: Release of hydrogen sulphide after contact with acids.

Special protective measures: None, however avoid dust formation.

Methods for cleaning up / absorption: Clean up mechanically - avoid dust development.

Further information:

Ultramarine blue is coated (SiO₂-Coating) to improve the stability.